

# Notice of Allowability

Application No.

10/755,926

Examiner

Shawn Riley

Applicant(s)

LYNCH ET AL.

Art Unit

2838

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Jan 2004 filing.
2. ☒ The allowed claim(s) is/are 1-32.
3. ☒ The drawings filed on 01 January 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date Jan 2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.



**SHAWN RILEY  
PRIMARY EXAMINER**

**DETAILED ACTION****Reasons for Allowance**

1. The following is an examiner's statement of reasons for allowance: No prior art uncovered anticipates or renders obvious applicant(s) claimed Royer circuit including a first transformer having a saturating core about which is wound at least two windings that include: a primary winding with first and second inputs and a secondary winding having first and second outputs; a first wide band gap transistor coupled to said first input; and a second wide band gap transistor coupled to said second input; said first and second wide band gap transistors alternately delivering current to the inputs of the primary winding from a power source thereby generating a substantially square-wave output voltage across the secondary winding outputs.
2. Further, no prior art uncovered anticipates or renders obvious applicant(s) claimed Royer circuit including a second transformer having a saturating core, about which is wound a primary winding with at least first and second inputs coupled to the first and second output terminals of the second, secondary winding, said second transformer having a secondary winding, the outputs of which are coupled to corresponding inputs of said first and second wide band gap transistors; and wherein the inputs of said first and second wide band gap transistors receive signals from the second transformer whereby they alternately deliver current to the inputs of the primary winding of the first transformer from a power source thereby generating a substantially square-wave output voltage across the first secondary winding outputs of the first transformer.
3. Further, no prior art uncovered anticipates or renders obvious applicant(s) claimed high temperature power supply circuit including a third wide band gap driver transistor having an input and an output, the input of said wide band gap driver transistor being coupled to the

Art Unit: 2838

variable pulse width output of said PWM; an output transformer having a primary winding and a secondary winding, the primary winding being coupled to the output of said wide band gap driver transistor, the secondary winding being coupled to the input of an output rectifier, an output of said output rectifier being coupled to a filter and to the control input of said PWM, said third wide band gap driver transistor controlling the flow of current through control winding of MAG AMP transformers to produce an output voltage that is regulated by signals input to the control input of said PWM.

4. Further, no prior art uncovered anticipates or renders obvious applicant(s) claimed high-temperature power supply circuit including at least a first wide band gap driver transistor having an input coupled to the output voltage terminal of said first magnetic amplifier, and having an output coupled to a first input terminal of the primary winding of an output transformer having a primary winding and a secondary winding; a second wide band gap driver transistor having an input coupled to the output voltage terminal of said second magnetic amplifier, and having an output coupled to a second input terminal of the primary of the output transformer, a rectifier, having an input coupled to an output of the secondary winding of said output transformer, said rectifier further having an output, a choke having an input coupled to the output of said rectifier, said choke also having an output at which a regulated D.C. voltage is available and which is coupled to the control input of said error voltage detector.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2838

*Allowable Subject Matter*

1. Claims 1-32 are allowable over the prior art of record.

*Conclusion*

Any inquiry from other than the applicant/attorney of record concerning this communication or earlier communications from the Examiner should be directed to the Patent Electronic Business Center (EBC) at 1.866.217.9197. Any inquiry from a member of the press concerning this communication or earlier communications from the Examiner or the application should be directed to the Office of Public Affairs at 703.305.8341. Any inquiry from the applicant or an attorney of record concerning this communication or earlier communications from the Examiner should be directed to Examiner Riley whose telephone number is 571.272.2083. The Examiner can normally be reached Monday through Thursday from 7:30-6:00 p.m. Eastern Standard Time. The Examiner's Supervisor is Mike Sherry who can be reached at 571.272.2084. Any inquiry about a case's location, retrieval of a case, or receipt of an amendment into a case or information regarding sent correspondence to a case **should be directed to 2800's Customer Service Center** at 571.272.2815. Any papers to be sent by fax MUST BE sent to fax number 703.872.9306. Any inquiry of a general nature of this application should be **directed to the Group receptionist** whose telephone number is 571.272.2800. Status information of cases may be found at <http://pair-direct.uspto.gov> wherein unpublished application information is found through private PAIR and published application information is found through public PAIR. Further help on using the PAIR system is available at 1.866.217.9197 (Electronic Business Center).

May 05



*Shawn Riley*  
*Primary Examiner*